

ENGINEERING (M.S.) ENVIRONMENTAL ENGINEERING EMPHASIS

Mission

To provide engineers and scientists with advanced graduate education in the broad areas of environmental engineering

Program Objectives

1. Provide students an understanding of fundamental scientific and engineering principles necessary to manage and solve environmental challenges in natural and engineered systems
2. Provide advanced course work and research programs in environmental engineering
3. Enable students to develop increased professional competence in the broad areas of environmental engineering

Degree Requirements

Thirty(30), or thirty-six (36), semester hours are required for the Master of Science Degree in Engineering depending upon which of the following three options the student selects with approval of his or her department chairperson and/or advisor.

Option 1 Twenty-four (24) semester hours of coursework plus a six-hour thesis

Option 2 Twenty-seven (27) semester hours of coursework plus a three-hour project

Option 3 Thirty-six (36) semester hours of coursework

Option 1 Requires a formal written thesis, formal presentation and oral exam.

Option 2 Requires a written project report, formal presentation and oral exam.

Option 3 Requires an oral exam.

To remain in "good standing," students must maintain a minimum cumulative grade point average (GPA) of 3.0 ("B average).

Core Courses

Each emphasis area has either three or four core courses (9 to 12 semester hours). Electives are selected with approval of the student's graduate committee and/or graduate advisor

Code	Title	Hours
CIV 561	CHEMISTRY FOR ENVIRNL ENGINEER	3
CIV 562	HAZARDOUS WASTE ENGINEERING	3
CIV 660	PHYCML PROCESSES IN WATER & WT	3
CIV 661	BIOL PROCESS IN WASTEWATER ENG	3
Total Hours		12

Elective Courses

Code	Title	Hours
CIV 520	ADVANCED ENGINEERING ANAYLS I	3
CIV 521	ADV D ENGINEERING ANALYSIS II	3
CIV 550	ENGINEERING HYDROLOGY	3

CIV 560	ENVIRONMENTAL ENGINEERING II	3
CIV 564	SURFACE WATER	3
CIV 566	AIR POLLUTION	3
CIV 567	ENVIRONMENTAL REMEDIATION	3
CIV 568	LAND DISPOSAL OF WASTE	3
CIV 569	ADV D TPCS IN WATER RESOU ENGENE	1
CIV 573	ENVRNMNTL GEOLOGY FOR ENGNS	3
CIV 574	HYDROGEOLOGY	3
CIV 631	LINEAR THEORY OF OCEAN WAVES	3
CIV 632	TIDES AND LONG WAVES	3
CIV 650	SMALL WATERSHED HYDROLOGY	3
CIV 653	ADV D DESIGN OF HYDRAULIC STRUC	3
CIV 666	ADVND WASTE TRTMNT PROC IN ENV	3
CIV 669	ADVND TPC IN ENVRNML ENGINEERG	3
CIV 680	UNSATURATED SOIL MECHANICS	3
CIV 681	EXCAVATION SUPPORT SYSMS & R S	3
CIV 682	COMPUTATIONAL GEOTECHNICS	3
CIV 683	SOIL STRUCTURE INTERACTION	3
CIV 684	ADVND SITE CHARACTER & INSTRUM	3
CIV 696	SEMINAR	1
CIV 697	INTERNSHIP	1-3
CIV 698	INDEPENDENT STUDY	1-4
CIV 699	THESIS RESEARCH	1-3